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AIR POLLUTION REPORT
FEDERAL FACILITIES

METROPOLITAN PROVIDENCE

INTERSTATE AIR QUALITY CONTROL REGION

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Environmental Health Service

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16. Abstracts

The status is presented of the Federal facilities in the Region regarding implementation of the objectives prescribed by the Clean Air Act and Executive Order 11507. A quantitative evaluation of emissions, data on fuel burning and refuse disposal, and abatement plans are included. A summary by county of the fuel use is given. Pollutant emissions are summarized by county. This Region was subsequently redesignated and its boundaries expanded, hence, the data do not reflect Federal facility emissions data for the townships of: Barnstable, Brewster, Chatham, Chilmark, Dennis, Eastham, Edgartown, Falmouth, Foxborough, Gay Head, Gosnold, Harwich, Mashpee, Medway, Milford, Nantucket, Oak Bluffs, Orleans, Provincetown, Tisbury, Truro, Wellfleet, West Tisbury and Yarmouth in Massachusetts which have been added to the region. The townships of Blackstone and Millville have been deleted.

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Refuse Disposal
Abatement
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Nitrogen Oxides
Carbon Monoxide
Particles
Hydrocarbons

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ADDENDUM TO THE PUBLICATION

"AIR POLLUTION REPORT ON FEDERAL FACILITIES IN THE METROPOLITAN PROVIDENCE STATE AIR QUALITY CONTROL REGION", June, 1970.

This inventory was prepared consistent with the report entitled "Consultation on the Metropolitan Providence Interstate Air Quality Control Region", July 1969, and the geographical designation of December 6, 1969. On March 9, 1971, in line with the concept of including the entire United States in these geographical units called Air Quality Control Regions, this Region was redesignated and its boundaries expanded by the Environmental Protection Agency. Hence, the data presented herein do not reflect Federal facility emissions data for the townships of: Barnstable, Brewster, Chatham, Chilmark, Dennis, Eastham, Edgartown, Falmouth, Foxborough, Gay Head, Gosnold, Harwich, Mashpee, Medway, Milford, Nantucket, Oak Bluffs, Orleans, Provincetown, Tisbury, Truro, Wellfleet, West Tisbury and Yarmouth in Massachusetts which have been added to the region. The townships of Blackstone and Millville have been deleted.

Federal Sources Branch
Division of Compliance
Environmental Protection Agency

November 2, 1971

AIR POLLUTION REPORT
FEDERAL FACILITIES

METROPOLITAN PROVIDENCE

INTERSTATE AIR QUALITY CONTROL REGION

ROBERT S. RUSSO

FEDERAL FACILITIES BRANCH
DIVISION OF ABATEMENT
NATIONAL AIR POLLUTION CONTROL
ADMINISTRATION

JUNE 1970

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NARRATIVE

The Metropolitan Providence Interstate Air Quality Control Region was designated pursuant to section 107(a) of the Clean Air Act, as amended, on December 6, 1969. It encompasses portions of Barnstable, Bristol, Norfolk, Plymouth and Worcester counties in Massachusetts and all of Rhode Island. A map of the region is shown in Figure 1.

The report presents the status of the Federal facilities in the Region regarding implementation of the objectives prescribed by the Clean Air Act and Executive Order 11507. A quantitative evaluation of emissions, data on fuel burning and refuse disposal, and abatement plans are included. The data in this report reflect that most recently available.

The 62 facilities in the region are listed in Table I along with data on fuel burning and refuse disposal for each. A summary by county of the fuel use is given in Table II. The total fuel use for Federal facilities in the region is: 29 million gallons residual oil, 58 million gallons distillate oil and 639 million cubic feet natural gas.

Pollutant emissions are summarized by county in Table III. The facilities emit a total of 5000 tons sulfur oxides (SOX), 1800 tons nitrogen oxides (NOX), 9800 tons carbon monoxide (CO), 670 tons particulates (PART) and 2100 tons hydrocarbons (HC) per year. As compared to all other sources in the region, Federal facilities emit approximately 2.8% of all particulates, 3.6% of all SOX and 2.2% of all CO. Those facilities which emit more than 100 tons of any pollutant per year (point sources) are listed in Table IV.

Seven facilities, as listed in Table V, reported air pollution problems and proposed abatement measures in their 1968 - 1973 five year plans. The most serious problems: open burning at the Naval Public Works Center and the Naval Air Station. Funds have been approved for incinerator construction and negotiations are in progress for joint ventures with the local municipalities.

An estimate of the reduction in pollutants upon installation of the incinerators is given in Table VI.

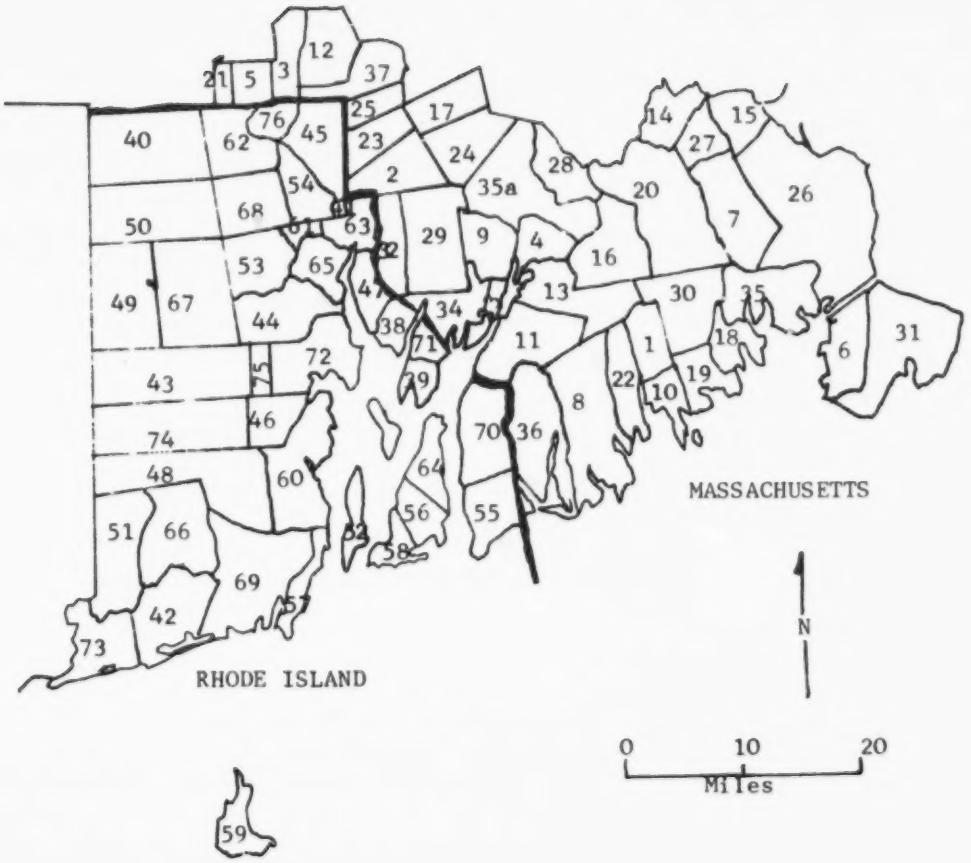

FIGURE 1*

METROPOLITAN PROVIDENCE INTERSTATE
AIR QUALITY CONTROL REGION

*Index on next page

INDEX TO MAP

MASSACHUSETTS

1. Acushnet
2. Attleboro
3. Bellingham
4. Berkley
5. Blackstone
6. Bourne
7. Carver
8. Dartmouth
9. Dighton
10. Fairhaven
11. Fall River
12. Franklin
13. Freetown
14. Halifax
15. Kingston
16. Lakeville
17. Mansfield
18. Marion
19. Mattapoisett
20. Middleborough
21. Millville
22. New Bedford
23. North Attleborough
24. Norton
25. Plainville
26. Plymouth
27. Plympton
28. Raynham
29. Rehoboth
30. Rochester
31. Sandwich
32. Seekonk
33. Somerset
34. Swansea
35a. Taunton
35. Wareham
36. Westport
37. Wrentham

RHODE ISLAND

38. Barrington
39. Bristol
40. Burrillville
41. Central Falls
42. Charlestown
43. Coventry
44. Cranston
45. Cumberland
46. East Greenwich
47. East Providence
48. Exeter
49. Foster
50. Glocester
51. Hopkinton
52. Jamestown
53. Johnston
54. Lincoln
55. Little Compton
56. Middletown
57. Narragansett
58. Newport
59. New Shoreham
60. North Kingston
61. North Providence
62. North Smithfield
63. Pawtucket
64. Portsmouth
65. Providence
66. Richmond
67. Scituate
68. Smithfield
69. South Kingstown
70. Tiverton
71. Warren
72. Warwick
73. Westerly
74. West Greenwich
75. West Warwick
76. Woonsocket

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
RHODE ISLAND BRISTOL BRISTOL							
NIKE SITE	0.	0.	0.	64483.	0.	0.	
US ARMY RESERVE CTR	0.	0.	0.	16000.	0.	0.	
USCG DEPOT	0.	0.	0.	4500.	0.	0.	
RHODE ISLAND BRISTOL WARREN							
POST OFFICE	0.	0.	0.	6000.	0.	0.	
RHODE ISLAND KENT COVENTRY							
NIKE SITE 69	0.	0.	0.	39347.	0.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
RHODE ISLAND KENT E GREENWICH							
FAA FLT AID	0.	0.	0.	0.	0.	0.	NO FUEL BURN
POST OFFICE	0.	0.	0.	7000.	0.	0.	
RHODE ISLAND KENT HILLSGROVE							
FAA FLT AID	0.	0.	0.	0.	0.	0.	NO FUEL BURN
RHODE ISLAND KENT WARWICK							
FAA FLT AID	0.	0.	0.	0.	0.	0.	NO FUEL BURN

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
USCG LT STA	0.	0.	0.	2000.	0.	0.	
POST OFFICE	0.	0.	0.	12266.	0.	0.	
US ARMY RESERVE CTR	0.	0.	0.	9000.	28000.	0.	
RHODE ISLAND							
KENT							
WEST WARWICK							
POST OFFICE	0.	0.	0.	12400.	0.	0.	
RHODE ISLAND							
NEWPORT							
BALDWIN MILL							
USCG LT STA	0.	0.	0.	0.	0.	0.	NO HEAT

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
RHODE ISLAND NEWPORT BLOCK ISLAND USCG ST STA	0.	0.	0.	8000.	0.	0.	
RHODE ISLAND NEWPORT CONIMICUT USCG LT STA	0.	0.	0.	0.	0.	0.	NO HEAT
RHODE ISLAND NEWPORT LITTLE COMPT USCG LT STA	0.	0.	0.	0.	0.	0.	NO HEAT
RHODE ISLAND NEWPORT MIDDLETOWN US NAVY DEGAUSS STA	0.	0.	0.	2000.	0.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
RHODE ISLAND NEWPORT NEWPORT							
POST OFFICE	0.	0.	0.	60000.	0.	0.	
USCG CASTLE HILL LT	0.	0.	0.	13500.	0.	0.	
NAVY BASE	200000.	0.	0.2672677.		13242369.	0.	
RHODE ISLAND NEWPORT NEW SHOREHAM							
USCG LT STA	0.	0.	0.	0.	0.	0.	NO HEAT
RHODE ISLAND NEWPORT PORTSMOUTH							
USCG LT STA	0.	0.	0.	0.	0.	0.	NO HEAT

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
RHODE ISLAND PROVIDENCE CRANSTON							
US NAVY RESERVE CTR	0.	0.	0.	0.	399000.	0.	
RHODE ISLAND PROVIDENCE E PROVIDENCE							
POST OFFICE	0.	0.	0.	7500.	0.	0.	
RHODE ISLAND PROVIDENCE FOSTER							
NIKE SITE 79	0.	0.	0.	15917.	0.	0.	
RHODE ISLAND PROVIDENCE HARRISVILLE							
POST OFFICE	0.	0.	0.	2200.	0.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
RHODE ISLAND PROVIDENCE NO SMITHFLD							
ARMY MAINT SHOP	0.	0.	0.	21514.	0.	0.	
RHODE ISLAND PROVIDENCE PASCOAG							
POST OFFICE	0.	0.	0.	2400.	0.	0.	
RHODE ISLAND PROVIDENCE PAWTUCKET							
POST OFFICE	0.	0.	0.	0.	13000.	0.	
US NAVY RESERVE CTR	0.	0.	0.	12000.	0.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
RHODE ISLAND							
PROVIDENCE							
PROVIDENCE							
CUSTOM HOUSE WEYBOSSET ST	0.	0.	16500.	0.	0.	0.	
FED BLGD EXCHANGE PL	0.	0.	509492.	0.	0.	0.	
FEDERAL BLGD EXCHANGE TER	0.	0.	0.	0.	0.	0.	PURCHASE STM
POST OFFICE	0.	0.	0.	7563.	0.	0.	
VA HOSPITAL	0.	15.	0.	0.	600000.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
USCG LT STA	0.	0.	0.	0.	0.	0.	NO HEAT
US ARMY RESERVE CTR	0.	0.	0.	24000.	0.	0.	
RHODE ISLAND PROVIDENCE WOONSOCKET							
POST OFFICE	0.	0.	0.	36000.	0.	0.	
RHODE ISLAND PROVIDENCE NO CITY ID							
NIKE SITE 99	0.	0.	0.	61524.	0.	0.	
RHODE ISLAND WASHINGTON NARRAGANSETT							
WATER HYGIEN LAB	0.	0.	0.	0.	80000.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
WATER QUALIT LAB	0.	0.	0.	0.	24000.	0.	
RHODE ISLAND WASHINGTON N KINGSTON							
NIKE SITE 58	0.	0.	0.	11640.	0.	0.	
NAVY AIR STATION	64000.	0.	113091.	1633785.	14177896.	0.	
RHODE ISLAND WASHINGTON POINT JUDITH							
USCG BOATHSE	0.	0.	0.	1500.	0.	0.	
RHODE ISLAND WASHINGTON WAKEFIELD							
POST OFFICE MAIN ST	0.	0.	0.	7346.	0.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
POST OFFICE MEMORIAL SQ	0.	0.	0.	7362.	0.	0.	
RHODE ISLAND WASHINGTON WESTERLY							
USCG LT STA	0.	0.	0.	0.	0.	0.	NO HEAT
MASSACHUSETT BRISTOL ATTLEBORO							
US ARMY RESERVE CTR	0.	0.	0.	15074.	0.	0.	
POST OFFICE	0.	0.	0.	15000.	0.	0.	
MASSACHUSETT BRISTOL FAIRHAVEN							
POST OFFICE	0.	0.	0.	4850.	0.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
MASSACHUSETT BRISTOL FALL RIVER							
POST OFFICE	0.	0.	0.	56600.	0.	0.	
MASSACHUSETT BRISTOL NEW BEDFORD							
CUSTOMS HSE	0.	0.	0.	8725.	0.	0.	
FAA FLT AID	0.	0.	0.	0.	0.	0.	NO FUEL BURN
GSA DEPOT	0.	0.	0.	775000.	0.	0.	
PO & FED BLG	0.	0.	0.	56700.	0.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
MASSACHUSETT BRISTOL N ATTLEBORO							
POST OFFICE	0.	0.	0.	11400.	0.	0.	
MASSACHUSETT BRISTOL TAUNTON							
NIKE SITE 19	0.	0.	0.	29026.	0.	0.	
POST OFFICE	0.	0.	0.	25900.	0.	0.	
US ARMY RESERVE CTR	0.	0.	0.	17586.	0.	0.	
MASSACHUSETT NORFOLK FRANKLIN							
POST OFFICE	0.	0.	0.	11170.	0.	0.	

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
MASSACHUSETT							
PLYMOUTH							
MIDDLEBORO							
POST OFFICE	0.	0.	0.	11482.	0.	0.	

TABLE II

ANNUAL FUEL USE BY FEDERAL FACILITIES

	COAL (TONS)	RESID OIL (GAL)	DIST OIL (GAL)	GAS (MCF)
RHODE ISLAND				
BRISTOL	0.	0.	90983.	0.
KENT	0.	28000.	82013.	0.
NEWPORT	0.	13242369.	2756177.	0.
PROVIDENCE	0.	1012000.	190618.	525992.
WASHINGTON	0.	14281896.	1661633.	113091.
MASSACHUSETT				
BRISTOL	0.	0.	1015861.	0.
NORFOLK	0.	0.	11170.	0.
PLYMOUTH	0.	0.	11482.	0.
TOTAL	0.	28564256.	5819937.	639083.

TABLE III

FEDERAL CONTRIBUTION TO AIR POLLUTION
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
RHODE ISLAND					
BRISTOL	2.	1.	1.	1.	1.
KENT	5.	1.	1.	1.	1.
NEWPORT	2000.	720.	1100.	380.	410.
PROVIDENCE	70.	40.	1.	10.	2.
WASHINGTON	2800.	970.	8700.	270.	1700.
STATE TOTAL	4900.	1700.	9800.	660.	2100.
MASSACHUSETT					
BRISTOL	80.	30.	1.	7.	1.
NORFOLK	1.	1.	1.	1.	1.
PLYMOUTH	1.	1.	1.	1.	1.
STATE TOTAL	80.	30.	3.	9.	3.
AREA TOTAL	5000.	1800.	9800.	670.	2100.

TABLE IV

FEDERAL POINT SOURCES
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
RHODE ISLAND					
NEWPORT					
NAVY BASE	2000.	720.	1100.	380.	410.
WASHINGTON					
NAVY AIR STATION	2800.	970.	8700.	270.	1700.

NOTE: A POINT SOURCE IS AN INSTALLATION WHICH EMITS OVER 100 TONS/YEAR OF ONE OR MORE OF THE FIVE POLLUTANTS.

TABLE V

ABATEMENT PROGRAM FOR FEDERAL PROBLEM AREAS IN
THE METROPOLITAN PROVIDENCE INTERSTATE
AIR QUALITY CONTROL REGION

A. Problem
B. Abatement measures proposed in the five year plan*
C. Abatement measures needed but not reported in the plan
D. Abatement measures accomplished or in progress

MASSACHUSETTS

BRISTOL COUNTY

ATTLEBORO

U. S. Army Reserve Center
D. converted to #2 oil

TAUNTON

U. S. Army Reserve Center
D. converted to #2 oil

RHODE ISLAND

NEWPORT COUNTY

NEWPORT

Naval Base
1. Public Works Center
A. open burning of refuse
D. funds approved by Congress for incinerator construction. Now negotiating with a regional joint council for joint venture incinerator
2. Fleet Training Center
A. fire fighting school
B. eliminate open tank fires or install smoke abatement equipment
D. awaiting relocation of school

*1968-73 plan per Executive Order 11282
superseded by Executive Order 11507

RHODE ISLAND (CONT'D)

PROVIDENCE COUNTY

NORTH SMITHFIELD

Combined Field Maintenance Shop
D. converted to #2 oil

PROVIDENCE

V.A. Hospital
A. single chamber incinerator
C. upgrade to meet Federal specifications

WASHINGTON COUNTY

NORTH KINGSTON

Naval Air Station
A. open burning of refuse
B. construction of new refuse incinerator
D. negotiating with North Kingston for joint venture refuse disposal

TABLE VI

POLLUTANT REDUCTION GOALS
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
RHODE ISLAND					
BRISTOL	0.	0.	0.	0.	0.
KENT	0.	0.	0.	0.	0.
NEWPORT	26.	143.	1105.	208.	390.
PROVIDENCE	0.	0.	0.	0.	0.
WASHINGTON	8.	46.	354.	67.	125.
STATE TOTAL	34.	189.	1459.	275.	515.
MASSACHUSETT					
BRISTOL	0.	0.	0.	0.	0.
NORFOLK	0.	0.	0.	0.	0.
PLYMOUTH	0.	0.	0.	0.	0.
STATE TOTAL	0.	0.	0.	0.	0.
AREA TOTAL	34.	189.	1459.	275.	515.

NOTE: THESE REDUCTIONS WILL RESULT FROM ABATEMENT MEASURES PROPOSED, BUT NOT YET ACCOMPLISHED, IN THE FIVE-YEAR PLAN.

REFERENCES AND NOTES

1. Duprey, R.L., Compilation of Air Pollutant Emission Factors, Public Health Service Publication No. 999-AP-42, 1968.

   All calculated emissions are based on these factors.

2. Report for Consultation on the Metropolitan Providence Interstate Air Quality Control Region, Public Health Service, July, 1969.

   Data on emissions from all sources used to calculate per cent government contribution were obtained from this report.

3. Clean Air Act, as amended (42 U.S.C. 1857 - 1857L), Sec 107, Sec 111. November 21, 1967.

4. Executive Order 11507, Prevention, Control, and Abatement of Air and Water Pollution of Federal Facilities, February 4, 1970.

5. Title 42 - Public Health, Chapter I, Subchapter F, Part 76, June 2, 1966.

6. Bureau of the Budget Circular A-76, August 6, 1966, and as revised May 18, 1970.

*U. S. GOVERNMENT PRINTING OFFICE : 1970- 436-612/8